about #7

PATENT Attorney Docket No. 215110

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Feussner et al.

Group Art Unit: Unassigned

Application No. 10/030,464

Examiner: Unassigned

Filed: January 8, 2002

For: 11-ARACHIDONATE-LIPOXYGENASE

MUTANTS

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, D.C. 20231

Pursuant to 37 CFR 1.97 and 1.98, the references listed on the enclosed Form PTO-1449 and/or Substitute Form PTO-1449 ("Form 1449") are submitted for consideration by the Examiner in the examination of the above-identified patent application.

The full consideration of the references in their entirety by the Examiner is respectfully requested and encouraged. Also, it is respectfully requested that the references be entered into the record of the present application and that the Examiner place his or her initials in the appropriate area on the enclosed Form 1449, thereby indicating the Examiner's consideration of each of the references.

The submission of the references listed on the Form 1449 is for the purpose of providing a complete record and is not a concession that the references listed thereon are prior art to the invention claimed in the patent application. The right is expressly reserved to establish an invention date earlier than the above-identified filing date in order to remove any reference submitted herewith as prior art should it be deemed appropriate to do so.

Further, the submission of the references is not to be taken as a concession that any reference represents art that is relevant or analogous to the claimed invention. Accordingly, the right to argue that any reference is not properly within the scope of prior art relevant to an examination of the claims in the above-identified application is also expressly reserved.

The Information Disclosure Statement is being filed:

within any one of the following time periods: (a) within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d); (b) within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 of an international application; (c) before the mailing date of a first Office Action on the merits; or (d) before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

In re Appln. of Feussner et al. Application No. 10/030,464 after (a), (b), (c) or (d) above, but before the mailing date of a final action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and includes one of: the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below). the fee of \$180 set forth in 37 CFR 1.17(p) (see "Fees" below). П after the mailing date of a final action under 37 CFR 1.113 or a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and on or before payment of the issue fee, and includes the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below). \Box after the mailing date of a Notice of Allowance under 37 CFR 1.311, and on or before payment of the issue fee, and within thirty days of receiving each item of information contained in the Information Disclosure Statement, and includes the Statement under 37 CFR 1.704(d) (see "Statement under 37 CFR 1.704(d)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below). NOTE: This is for original applications except applications for a design patent, filed on or after May 29, 2000, wherein a paper containing only an Information Disclosure Statement in compliance with 37 CFR 1.97 and 1.98 is being filed. Copies of the References 冈 Copies of the references listed on the enclosed Form 1449 are enclosed herewith. Attached to each reference not in the English language is a concise explanation of the relevance pursuant to 37 CFR 1.98(a)(3). An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of the relevance pursuant to 37 CFR 1.98(a)(3). \boxtimes Two copies of the foreign search reports are enclosed herewith. \Box The references listed on the enclosed Form 1449 were previously identified in the

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references were previously furnished are set out below:

parent application(s) of the present application, and copies of the references were furnished at that time. Accordingly, additional copies of the references are not submitted herewith, so as not to burden the file with duplicate copies of references. The Examiner is respectfully requested to carefully review the references in accordance with the requirements set out in the Manual of Patent Examining Procedure. In accordance with 37 CFR 1.98(d), the details of the parent application(s) relied upon for an earlier filing date under 35 USC 120 in which copies of the

In re Appln. of Feussner et al. Application No. 10/030,464

	U.S. APPLIC	CATIONS	Status (check one)					
	J.S. APPLICATIONS	U.S. FILING DATE	PATENTED	PENDING	ABANDONED			
1.								
2.								
3.		·	<u></u>					
State	ment under 37 CFR	1.97(e)						
	The undersigned hereby states that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the Information Disclosure Statement.							
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State	ment under 37 CFR	1.704(d)						
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Fees								
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Date: May 24, 2002

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Substitute for fo	rm 1449A/B/PTO			Application Number	10/030,464		
AND T	ODMATION	Nec	LOCUDE	Filing Date	January 8, 2002		
	ORMATION I	_		First Named Inventor	Ivo FEUSSNER		
STATEMENT BY APPLICANT			PLICANT	Group Art Unit	Unassigned		
	(Use as many sheets	s as ne	cessary)	Examiner Name	Unassigned		
Sheet 1 of 1				Attorney Docket Number	215110		

U.S. PATENT DOCUMENTS									
U.S. Patent Document									
Examiner Initials	Doc. No.	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of Publication	Filing Date If Appropriate			

FOREIGN PATENT DOCUMENTS									
Foreign Patent Document Trans						lation			
Examiner Initials	Doc. No.	Office	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of Publication	Yes	No*+	
	AA	wo	00/60093	Α	Institut für Pflanzenbiochemie IPB et al.	10/12/00	X+		

		OTHER - NON PATENT LITERATURE DOCUMENTS		slation			
Examiner	Doc.	Doc. Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item					
Initials	No.	(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Yes	No*+			
	AB	DI MARZO et al., "Biosynthesis, structure and biological activity of hydroxyeicosatetaenoic acids in Hydra vulgaris," <i>Biochemical Journal</i> , 295 (1), 23-29 (October 1, 1993)					
	AC	DI MARZO et al., "Polyunsaturated-fatty-acid oxidation in Hydra: Regioselectivity, substrate-dependent enantioselectivity and possible biological role," <i>Biochemical Journal</i> , 300 (2), 501-507 (June 1, 1994)					
	AD	FEUSSNER et al., "Lipoxygenase catalyzed oxygenation of lipids," FETT, 100 (4-5), 146-152 (May, 1998)					
	AE	HAWKINS et al., "Eggs of the sea urchin, Stronngylocentrotus purpuratus, contain a prominent (11R) and (12R) lipoxygenase activity," J. Biol. Chem., 262 (16), 7629-7634 (June 5, 1987)					
	AF	HAWKINS et al., "Resolution of enantiomers of hydroxyeicosatetraenoate derivatives by chiral phase high-pressure liquid chromatography," <i>Analytical Biochemistry</i> , 173 (2), 456-462 (September 1988)	ļ				
	AG	HAWKINS ET AL., "Mechanisms of biosynthesis of 11R- and 12R- hydroxyeicosatetraenoic acids by eggs of the sea urchin Stronnsylocentrotus purpuratus," <i>FEBS Letters</i> , 247 (1), 9-12 (April 10, 1989)					
	АН	HORNUNG et al., "Conversion of cucumber linoleate 13-lipoxygenase to a 9-lipoxygenating species by site-directed mutagenesis," PNAS USA, 96 (7), 4192-4197 (March 30, 1999)					
	Al	KUENN et al., "Analysis of the stereochemistry of lipoxygenase-derived hydroxypolyenoic fatty acids by means of chiral phase high-pressure liquid chromatography," <i>Analytical Biochemistry</i> , 160 (1), 24-34 (January 1987)					
	AJ	LEITZ et al., "Enantiospecific synthesis of bioactive hydroxyeicosatetraenoic acids (HETEs) in Hydra magnipapillata," <i>Biochimica et Biophysica Acta</i> , 1213 (2), 215-223 (July 14, 1994)					
	AK	MULLIEZ et al., "5-Lipoxygenase from potato tubers improved purification and physicochemical characteristics," <i>Biochimica et Biophysica Acta</i> , 916 (1), 13-23 (1987)					
	AL	PORTER et al., "The resolution of racemic hydroperoxides: a chromatography-based separation of perketals derived from arachidonic, linoleic, and oleic acid hydroperoxides," Chemical Research in Toxicology, 3 (3), 236-243 (May/June 1990)					
	AM	REDDY et al., "11-Hydroperoxyeicosatetraenoic acid is the major dioxygenation product of lipoxygenase isolated from hairy root cultures of Solanum tuberosum," <i>Biochemical and Biophysical Research Communications</i> , 189 (3), 1349-1352 (December 30, 1992)					
	AN	REDDY et al., "Mechanism of formation of leukotrienes and lipoxins from arachidonic acid catalyzed by homogenous lipoxygenase from potato tubers," in <i>Advances in Prostaglandin</i> , <i>Thromboxane and Leukotriene Research</i> , vol. 19, pp. 133-136, B. Samuelsson et al., eds., Raven Press Ltd., New York (1989)					
	AO	VAN ZADELHOFF et al., "With anandamine as substrate plant 5-lipoxygenases behave like 11-lipoxygenases," <i>Biochemical and Biophysical Research Communications</i> , 248 (1), 33-38 (July 9, 1998)					

Examiner Signature	Date Considered			
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^{*} A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

+ An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).